

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P888064

Luminaire Tested: **DPT5-4F021-85V60-A-XX-UDD_2700K**

Issue Date: 10/24/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P888064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (DEFINE LENGTH SCALING TOOL)
Test Lab: INNOVATIONS CENTER
Issue Date: 10/24/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: DPT5-4F021-85V60-A-XX-UDD_2700K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

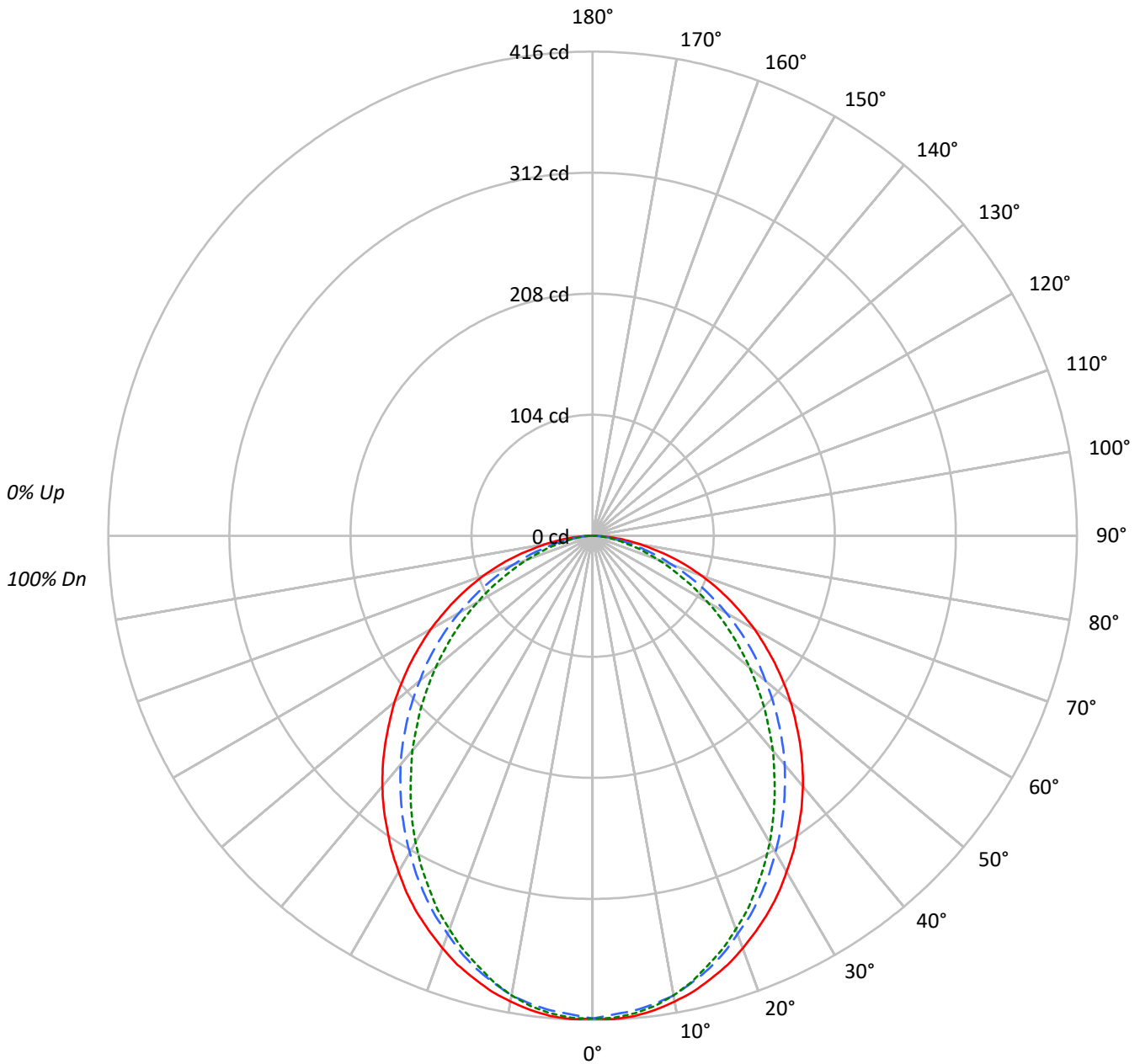
Lumens per Lamp: N/A
Luminaire Lumens: 980.0 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85																			
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72																			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61																			
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53																			
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46																			
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41																			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36																			
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33																			
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29																			
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6941	6941	6941
5°	6958	6879	6919
10°	6904	6814	6814
15°	6822	6675	6621
20°	6717	6482	6405
25°	6593	6292	6154
30°	6440	6071	5878
35°	6286	5842	5569
40°	6138	5605	5262
45°	5961	5336	4929
50°	5782	5048	4584
55°	5575	4773	4216
60°	5368	4434	3815
65°	5124	4047	3358
70°	4844	3552	2896
75°	4455	3000	2412
80°	3922	2361	2024
85°	3302	1939	1805



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.0	4.0
10°-20°	109.1	11.1
20°-30°	158.2	16.1
30°-40°	180.2	18.4
40°-50°	175.7	17.9
50°-60°	147.8	15.1
60°-70°	103.6	10.6
70°-80°	53.1	5.4
80°-90°	13.3	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	306.3	31.3
0°-40°	486.6	49.6
0°-60°	810.1	82.7
0°-90°	980.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	980.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	415	415	415	415	415	
5°	414	413	410	412	412	39
15°	394	392	385	385	382	111
25°	357	352	341	337	333	164
35°	308	300	286	277	273	193
45°	252	243	226	213	208	194
55°	191	181	164	150	144	171
65°	129	119	102	90	85	128
75°	69	60	46	40	37	73
85°	17	12	10	10	9	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	414.8	414.8	414.8	414.8	414.8
2.5°	415.7	414.8	411.7	414.8	414.5
5°	414.2	413.0	409.5	412.5	411.9
7.5°	411.0	409.8	405.7	408.2	407.6
10°	406.3	405.4	401.0	402.0	401.0
12.5°	401.0	399.7	393.4	394.1	392.6
15°	393.8	391.9	385.3	385.0	382.2
17.5°	386.3	383.5	375.6	374.1	371.9
20°	377.2	374.1	364.0	362.5	359.7
22.5°	367.2	364.0	353.4	350.0	347.7
25°	357.1	352.4	340.8	336.8	333.3
27.5°	345.9	340.2	328.0	322.7	319.3
30°	333.3	327.4	314.2	307.1	304.2
32.5°	321.1	313.9	300.4	292.3	288.6
35°	307.7	300.2	286.0	277.0	272.6
37.5°	294.8	285.7	271.3	260.7	256.2
40°	281.0	271.6	256.6	244.7	240.9
42.5°	266.6	256.9	241.2	230.0	224.0
45°	251.9	242.9	225.5	213.0	208.3
47.5°	236.5	227.2	209.8	197.1	191.7
50°	222.1	211.8	193.9	180.8	176.1
52.5°	206.4	195.8	179.2	164.8	160.0
55°	191.1	181.1	163.6	149.5	144.5
57.5°	175.4	164.8	147.9	134.1	129.7
60°	160.4	149.5	132.5	118.7	114.0
62.5°	144.5	134.1	116.9	104.3	99.6
65°	129.4	118.7	102.2	89.6	84.8
67.5°	114.3	103.7	87.7	75.8	72.1
70°	99.0	88.3	72.6	62.9	59.2
72.5°	84.0	73.6	59.2	50.4	48.3
75°	68.9	59.5	46.4	39.5	37.3
77.5°	53.5	46.0	35.0	29.8	27.9
80°	40.7	33.2	24.5	21.6	21.0
82.5°	28.2	21.6	16.3	15.3	15.1
85°	17.2	11.6	10.1	9.7	9.4
87.5°	7.3	5.0	4.7	4.7	4.4
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)